April-12-12 4:11:07 PM Item ID: D212-664-101 Accept Setup Start *N900040100* **Revision ID:** Item Name: Crosstube Fwd Start Date: 12/04/2012 Start Qty: 1.00 **Cust Item ID: Required Date: 26/04/2012 Req'd Qty:** 1.00 **Customer:** Reference: Run Process Plan: MLJ Approvals: Date: 17/04 Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Set Up/ Accept Reject Reject Insp. Description Work Center ID Qty **Run Hours** Code' Qty Number Stamp Draw Nbr **Revision Nbr** D212-664-141 Rev D (DEO) 100 0.00 DOCUMENT CONTROL *100* 0.00 Memo Document Control Photocopy bluefile and create labels as per PPP D212-664-101 CHG005 110 Pick Kit 0.00

110

Packaging

Packaging

Memo

0.00

Packaging

120

0.00

120 CNC Bend 2

BENDING MACHINE - CROSSTUBES

Memo

CNC Alpha 160 Bender

0.00

Bend tube as per Dwg D212-664-141 using CNC bender program 212-fw and

Folio D212-664-101

Dart Aerospace L	Ltd
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W/O:		WORK ORDER CHANGES												
DATE	STEP	PROC	EDURE CI	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
					24.15									
Part No	art No: PAR #:			tegory:	_ NCR: Yes	NCR: Yes No DQA: Date: _								
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NCR:		. W	WORK ORDER NON-CONFORMANCE (NCR)											
DATE	STEP	Description of NC Section A	Initial	Action Description	Section B iption Sign &			Approval Chief Eng	Approval QC Inspector					
		 	Chief Eng	Chief Eng	Date									
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83083

Page 2

April-12-12 4:11:07 PM D212-664-101 Accept Item ID: *N900040100* Setup Start **Revision ID:** Crosstube Fwd **Item Name: Start Date:** 12/04/2012 Start Qty: 1.00 **Cust Item ID:** Req'd Qty: 1.00 **Required Date: 26/04/2012 Customer:** Reference: Run Start **Process Plan:** Approvals: Date: **Tooling:** Date: Stop QC: Date: SPC(Y/N): Date: Sequence ID/ **Operation** Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty **Qty** Number Stamp 130 QC15- Crosstube Dimensional Check 0.00 *130* QC Memo Quality Control 140 0.00 Crosstubes *140* Crosstubes 0.00 Memo Crosstubes 1-Drill pilot holes in tube as per Dwg D212-664-141 using drill Jig DT8548 & DT8549, using drill table DT8577, set-up towers in hole #7 as per QSI 10 12-6.7 2-Ream hole to finish size in tube as per Dwg D212-664-141using drill Jig DT8548 & DT8549. Check dimensions between holes, both sides on both cuffs. to ensure alignment with saddle holes. 3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-141

4-Deburr & Inspect for surface damage. Repair damage within limits as per

Dwg D212-664-141

W/O:		WORK ORDER CHANGES									
DATE	STEP PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:	
Resolution:		Disposition:	QA: N/C Closed	:	Date:	

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		Description of NC		Corrective Action Section B		Verification	Anneous	Approval
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Work Order ID 83083

Page 3

April-12-12 4:11:07 PM D212-664-101 Item ID: **Revision ID:** Item Name: Crosstube Fwd 12/04/2012 **Start Date: Required Date: 26/04/2012**

Accept

N900040100

Setup Start

Start Qty: 1.00 **Req'd Qty:** 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID

Hand Finishing Crosstubes

Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Reject Qty **Qty**

Reject Number

Insp. Stamp

150

Crosstubes Chemical Conversion

0.00

150

HandFXtube

Memo

Memo

0.00

Chemical Conversion Coat within 24 hours of bending and drilling

160

160

OC

Quality Control

QC5- Inspect part completeness to step on W/O

170

Outsource process - NDT per OSI038 4.1

0.00

0.00

170 Outsource2

Outsource process - NDT

Memo

Liquid Penetrant Inspection as per QSI 038

Attach copy of NDT results to work order

112-06-12

Dart	Aeros	pace	Ltd
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w/o: 8	3083	WORK ORDER CHANGES									
DATE	·						Approval Chief Eng / Prod Mgr	Approval QC Inspector			
	世 130	more sten # 50 to After Step # 190.		1	12.06.18		a 20618	17/06/07			

Part No: \$\frac{12-664-101}{212-664-101} PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	ntion of NC Corrective Action Section B				Approval	Approval
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D212-664-101 Item ID: Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Fwd **Start Date:** 12/04/2012 Start Oty: 1.00 **Cust Item ID: Required Date:** 26/04/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Work Center ID **Description Run Hours** Code Qty Qty

Reject Insp. Number Stamp 180 Receive & Inspect for Damage & Mat'l Certs 0.00 Packaging *120* Packaging 0.00 Memo

Packaging Ensure copy of NDT results attached to work order.

190 QC5- Inspect part completeness to step on W/O 0.00

190 OC 0.00 Memo

Quality Control Inspect for damage & ensure results are as per Dwg D212-664-141

chemical cont as per 002005 #191

12 - 6 - 12

4/92

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W/O:			V	VORK ORDER CHANG	ES					
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SprayPaint *200* **SprayPaint** 0.00 Memo Spray Painting 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube as per DEO D212-667-141 with White Imron as per QSI 005 4.2

PRIME: 121746 Start Time: 4:00 Fininsh Time: 5:00

PAINT: 120985 Start Time: 6:15 Start: 3:00 Finish: 4:00 QC14- Inspect Spray Paint

210

QC

Memo

0.00

Quality Control

Then, Wrap in plastic bag to protect from scratches

12-6-13

Page 5

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W/O:			WORK ORDER CHANGES										
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0.00

0.00

240

740
Packaging

Packaging

Pick Kit

Memo

W/O:		WORK ORDER CHANGES										
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Item ID: D212-664-101 Accept *N900040100* Revision ID: Crosstube Fwd Item Name: 12/04/2012 Start Qty: 1.00 **Start Date: Cust Item ID:** Req'd Qty: 1.00 **Required Date:** 26/04/2012 **Customer:** Reference: Run Approvals: Process Plan: Date: Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ **Operation** Tool ID Set Un/ Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Code Qty Oty Number Stamp 250 QC4-100% Inspect kits for completeness *250* Memo **Quality Control** 260 0.00 Packaging *260* Packaging Memo Identify and pack for shipping as per PPP D212-664-101 Packaging M206.K 270 QC21- Final Inspection - Work Order Release 0.00 0.00 Memo Quality Control

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Picklist Print												Page
April-12-12 4:11:1	10 PM											r ug
Work Order ID: 83	3083		*	83083	} *							
Parent Item: Di	212-664-101				-664-1	Λ 1*						
Parent Item Name:	Crosstube Fwd			1	-004-1	() 1			Start Date: 12/ Start Qty: 1.0			ed Date: 26/04/2012 red Qty: 1.00
Comments:	IPP Rev:E04.02.161 IPP Rev:F 06-03- IPP Rev:G 07-04- 11.04.26 inspectio	29 Remove Co 30 As per Rev	C		JLM IPP	Rev:H						
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D212-664-101TRN		Manufactured	No	Dec		110	Each	7.0000	1	\bigcap	TT 1	
D212-66 Crosstube Turning Detail		₹N		B850	061				**		~W	12-6-6
· ·				Location	<u>1</u>	Loc C	Qty	Loc Cod	<u>e</u>		1 × 3	
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					68584		0		_			
					81140		1		_			
					81141		1		_		_	
					82577		1		_			
				LG			4		_		·	
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D0505 040 450					82576		1				— N	
D3595-063-450		Manufactured	No			230	Each	83.8095	4	4.2105	26	1
D3595-C)63-450								**		M	12.06.14
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. Work Order ID: 83083

D212-664-101

Parent Item Name: Crosstube Fwd

Parent Item:

MS21920-25

83083

D212-664-101

Start Date: 12/04/2012

Required Date: 26/04/2012

Start Qty: 1.00

Required Qty: 1.00

No

220

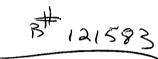
Each

133.0000

Loc Code

**

MS21920-25 Clamp(per MIL-DTL-8783C)



D2893-1

Manufactured

Purchased

Location	Loc Q	<u>ty</u>
LG050	1	33
116264		2
117998		4
118142		4
119339		2
119746		2
120475		19
120920	1	00
	220	Each

10.0000

2.75 Support 80271

D2893-1

Manufactured No

Location	<u>Lo</u>	<u>e Qty</u>	Loc Code
LG052		10	
72865		2	
76250		1	
82228		7	
	240	Each	31.0000

1.0000

**

Location	Loc Qty	Loc Code
ST042	31	
78933	14	
81881	17	

Dart Ae	rospace	e Ltd								
W/O:			M	ORK ORDER CHANGE	ES					
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514 119075 120308 200 No 240 0.0000 Each

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DART AEROSPACE LTD	Work Order:	83083
Description: Crosstube High Fwd (205/212/412)	Part Number:	D212-664-101
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

	Required Dimension	Min	Max	
	Height	26.79	27.05	
	1/2 Span	53.59	53.85	
	Angle	49	52	
Ĺ	Total Span	107.18	107.7	
	.1667 4.836		213 - 4.849	
	3.4%	1	4.3%	
	2.352		2.531 2.531	
26675	>.1 ⁵			26.900
	<u>t</u>		-	
A	<u> </u>	n n	— 53.830 ^N —	3
		107.680"		

			Comments	
SiDe	AZ	3.4%	crushing	Q 24 PASSES
Si'Do	_ ₿ ≥	4.3%	Crahi	@ 21 Parse:
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21
1060
2

Rev	Date	Change	Pavisad by	Annuara
Α	07.02.06	New Issue	Revised by KJ/JM	Approved
В	07.05.31	Dimensions updated per Dwg Rev C	KJ/JM . s	
С	10.04.01	Dwg Rev updated	KJ SA	

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W/O:			WO	RK ORDER CHANG	ES				
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NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Item	Qty -141	Qty -141B	Part Number	Description
1	Х		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2		X	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6005-128
 - FINISHED LENGTH = 126.514±0.020
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664) D212-664-141B = 33.6 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

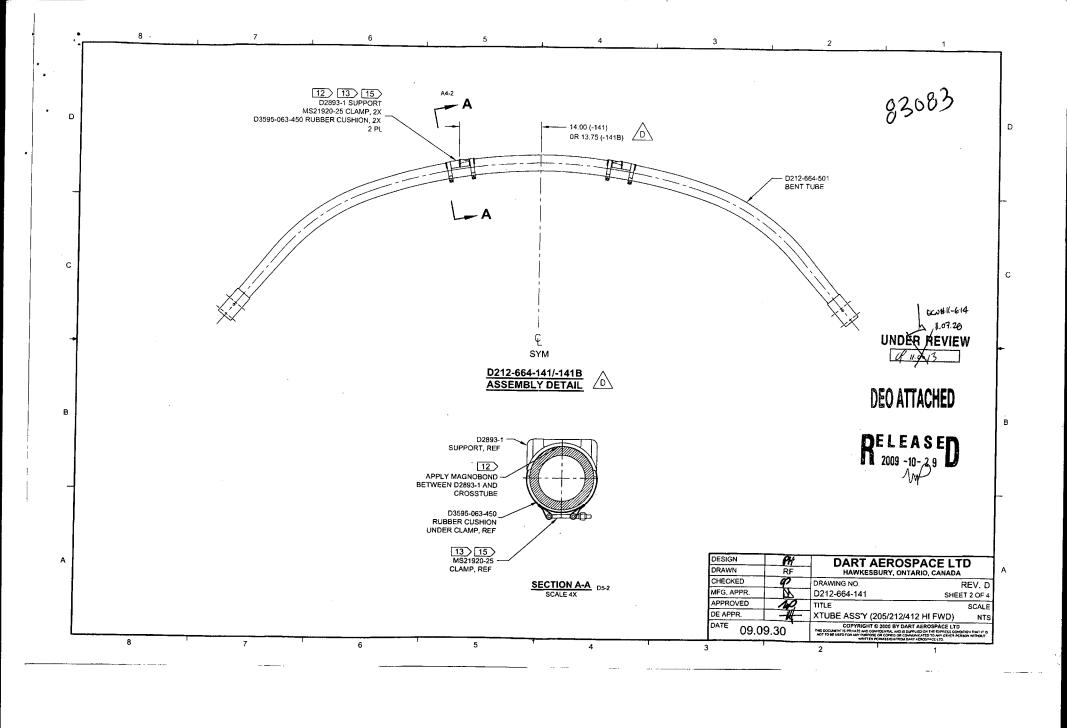
SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO 83083 MLT 12/04/13

REMOVED FROM WHOM REVIEW PER UNDER REVIEW SCN #11-614

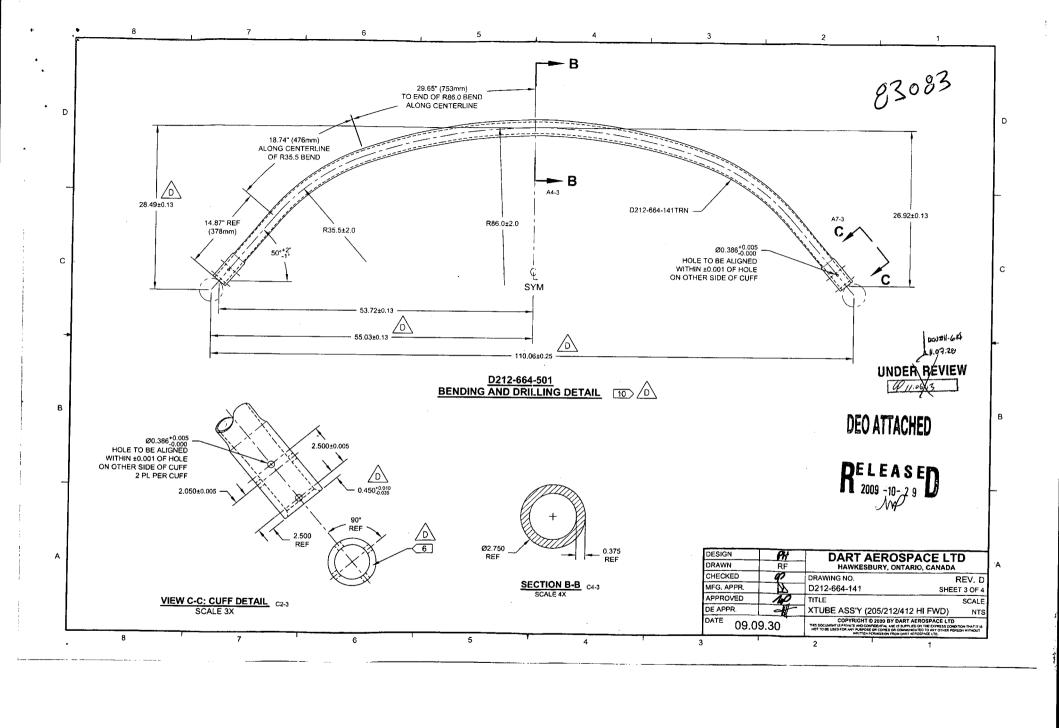
DEO ATTACHED

D	REORG TO CUI REMO\ & B6-3)	MAT/REVISE SANIZED VIEW RRENT STANE /ED REF & AD ; RELOCATED) TURNING DE 4	RF	09.09.30	
С	REMO 6398, 0	VE -851 ABRA CUSHION, RE	РН	07.03.08	
₿,	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES				05.02.04
Α	NEW I	SSUE		PH :	00.12.12
REV.			DESCRIPTION	BY	DATE
DESIGN		PH	DART AEROSPA	CF	ITD
DRAWN		RF	HAWKESBURY, ONTARI		
CHECKE	D	9	DRAWING NO.		REV. D
MFG. AF	PR.	N	D212-664-141	s	HEET 1 OF 4
APPRO\	/ED	10	TITLE		SCALE
DE APP	₹.		XTUBE ASS'Y (205/212/412 I	H FWD	
DATE	09.0	9.30	COPYRIGHT © 2000 BY DART AE THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATION.	ROSPACE	LTD

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W/O:			W	ORK ORDER CHAN	GES				
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NCR:	,	•	WORK ORE	DER NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC	Initial	Corrective Action Secondary Action Description	ction B Sign	Verific		Approval	Approval
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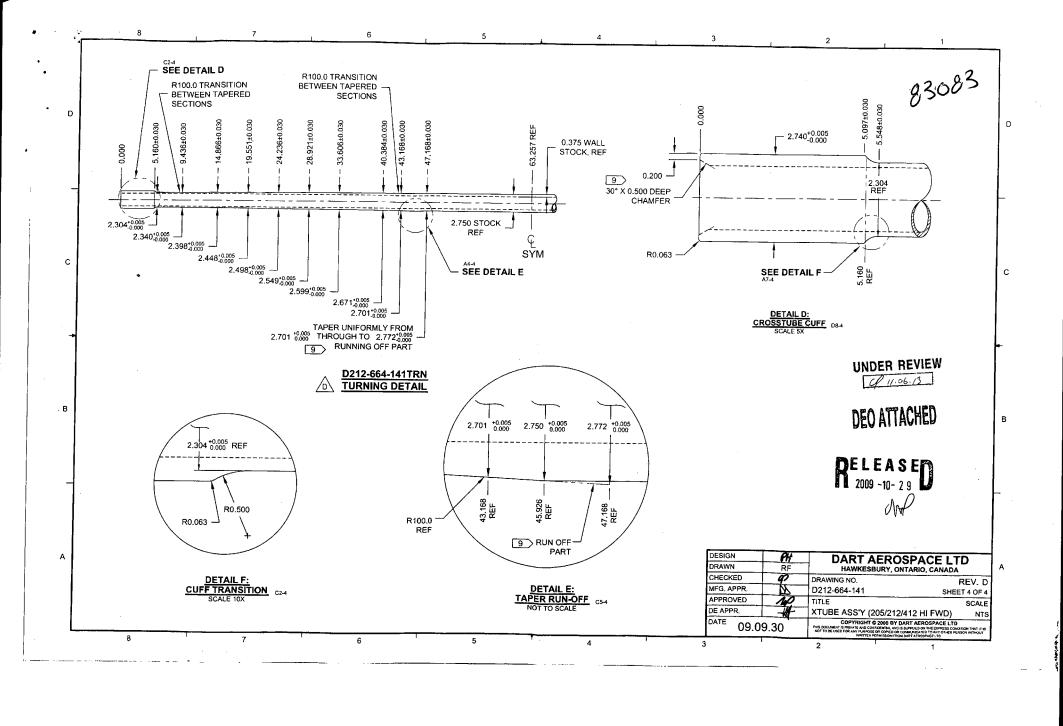


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DATE	STEP	PR	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
Resolution:			Disposition	າ:	QA: N/C (closed:		Date: _	
NCR:			WORK ORDI	ER NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC	Description of NC Corrective Action		tion B		erification Appro		Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Date		on C	Chief Eng	QC Inspector
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Resolution:		Disposition):	QA: N/C CI	osed:		Date: _		
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DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
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W/O:			WO	ORK ORDER CHANGE	S				
DATE STEP		PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cateç	jory:	NCR: Yes	No DQ	A:	Date:	
Resolution:		Disposition	1:	QA: N/C CI	osed:		Date: _		
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DATE	OTED	Description of NC	Description of NC Corrective Action		n B	Verific	eation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti		Chief Eng	QC Inspector
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DRAWING NO.	TITLE		REV. D	DART AEROSPACE LT	D D	E.O. NO.	SHEET NO.	SCALE
D212-664-141	XTUBE ASS	Y (205/212/412 F	ll FWD)	ENGINEERING ORDE		212-664-141 <u>-</u> D-1	SHEET 1 OF 2	, , NTS
DRAWN	\	CHECKED	P	MFG. APPR. Z	APPR	OVED NA	DE APPR.	
DATE 11.04	.07	DATE	11,047,11	DATE ((.04.12	DATE	11/04/12	DATE 11.04.12	***************************************

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

<u> 18:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

DELEASED 2011 -04- 1,8

UNDER REVIEW

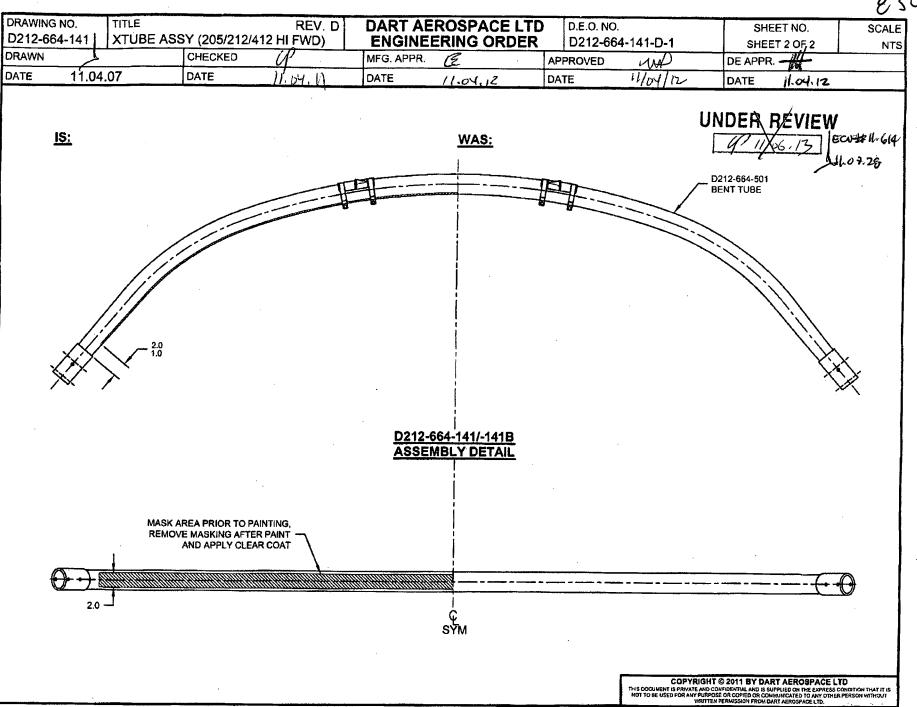
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Dart Aerospace I	Ltd
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W/O:			V	VORK ORDER CHAN	GES				
DATE	STEP	PRO	OCEDURE CH	HANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Ca	itegory:	NCR: Yes	No DQ	A:	Date:	
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DATE	STEP	Description of NC			ction B	Verifi	cation	Approval	Approval
D/11	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC inspector



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Dail Ac	ospace	s Llu								
W/O:			WC	RK ORDER CHANG	ES					
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	D	ate C	ty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	R	esolution:	Disposition	:	_ QA: N/C	Close	d:		Date: _	
NCR:		V	VORK ORDE	R NON-CONFORM	ANCE (N	CR)				*
		Description of NC		Corrective Action Sect	ion B	,	Verificati	on	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		n & ite	Section (Chief Eng	QC Inspector
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DRAWING NO.	TITLE PEV D	DADE AFRAGRAGE	"		
1	NLV, D1	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>S	MFG. APPR.	APPROVED W	DE APPR.	1110
DATE 11.07.	15 DATE 11.07.20	DATE 11.07.21	DATE 11/07/21	DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

item	Qty -141	Qty -141B	Part Number	Description
	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
				ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
<u> </u>				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

18

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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W/O:			· · · · · · · · · · · · · · · · · · ·	VORK ORDER CHANGES				
DATE	STEP	PRO	CEDURE CH		Ву	Date C	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	R	esolution:		The state of the s	NC C	losed:	Date:	
NCR:		, v	VORK OR	DER NON-CONFORMANC	E (NCI	₹)	· · · · · · · · · · · · · · · · · · ·	
DATE	STEP	Description of NC		Corrective Action Section B	*	Verificati	on Approval	Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	Section (QC Inspector
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·.					/			
	卷	S. Carrier						· •

5.0 PARTS LIST

5.1 HIGH GEAR CROSSTUBES

Item	/-101/	-201	-203	Part Number	Description
	х			D212-664-101	CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
		x		D212-664-201	CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
			х	D412-664-203	CROSSTUBE INSTALLATION, 412 HIGH AFT
1	1			D212-664-141	CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
2		1		D212-664-241	CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
3			1	D412-664-243	CROSSTUBE ASSEMBLY, 412 HIGH AFT
				+ 00000 4	CUDOODT
10	2			* D2893-1 * D3595-063-450	SUPPORT RUBBER CUSHION
11 12	4	·		* MS21920-25	CLAMP (OR MS21042-26)
				-AN6-35A	BOLT
13	4			AN6-36A	BOLT
14_				MS21042L6 /	NUT (OR MS21042-6)
15 16	6 5-18			AN960JD616	WASHER
10	7/10			ANSOUJDOTO /	WASHER
20		2		* D2940-1	SUPPORT
21		4		* D3595-063-530	RUBBER CUSHION
22		4		* MS21920-28	CLAMP (OR MS21042-30)
23		4		AN6-40A	BOLT
24		2		AN6-41A	BOLT
25		6		MS21042L6	NUT (OR MS21042-6)
26	1	18		AN960JD616	WASHER
30			1	* D2896-1	SUPPORT
32			2	* D3595-063-570	RUBBER CUSHION
33			4	* MS21920-28	CLAMP
34			2	* MS21920-30	CLAMP (OR MS21042-32)
35			4	AN6-40A	BOLT
36			2	AN6-41A	BOLT
37			6	MS21042L6	NUT (OR MS21042-6)
38			18	AN960JD616	WASHER
39			2	* D3189-1	CHAFING SHIELD
50	/-1	<u> </u>		D3428-1	PLACARD

^{*}REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AAI SKIDTUBES.

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Revision: **G**

Date: 11.08.30

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PENETRANT REMOVER H	MINIMUM DRY TIME	>10 Min. OTHER	LABINO	
PENETRANT REMOVER # 5	MINIMUM DRY TIME MINIMUM DWELL TIME	>10 Min. OTHER 10 Min. LIGHT MET	ERS/N 1098366	CAL DUE DATE July
PENETRANT REMOVER DEVELOPER DEVELOPER TYPE NO	MINIMUM DRY TIME	>10 Min. OTHER	ERS/N 1098366	
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Scope of Services

Laction for the services extend beyond the performance of the requested services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested services services. It is a given for the documents and expressions of opinion reflect the opinions or observations of Acuren Group Inc. based on information and assumptions supplied by the oscientoperator and are not invent, a new careful to be a service in sucreanities. Acuren Group Inc. Is not assuming any responsibilities of the owner/operator retains complete responsibility for the engineering, manufacture, experience in the owner/operator petalistic provided by Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in respect of the services referred to herein exceed the amount paid for such services.

Substitute of these

Solution of the services provided. Acuren Group Inc. uses the degree, care and shift ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No school wastern as the services in the same or similar locality. No school wastern as the services in the same or similar locality. No school wastern as the services in the same or similar locality. No school wastern as the services in the same or similar locality. No school wastern as the services in the same or similar locality. No school wastern as the services in the same or similar locality. No school wastern as the services in the same or similar locality.

CLIENT REPRESENTATIVE Andy Sheldon	Bheldon	- DTR# =63544
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NAME (PRINT): AND TECHNICIAN	2 ^{nc} TECHNICIAN	NAME INITIALS
CGSB LEVEL SNT LEVEL CGSB REG. NO	CGSB LEVEL SNT LEVEL	

Form dated Mar 2009

Client: Contact: Location: Description: Report #'s:			ıF.	10 10 20	E	STOSS-	· S	MANNE S	S On 10	Job #: //Day: P.O. #: hicle #		055 N	lon	LTI	ues	, W	'ed	06/12-1 Thurs 188-1	Fi	ri		Sat FO
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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17187

Purchase Order Date 6/12/2012 PO Print Date 6/12/2012

Page Number 1 of 1

Order From:

VC-ACU002

ACUREN 2190 SPEERS ROAD OAKVILLE, ON L6L 2X8 CA

Contact Name

Vendor Phone

613 931 1261

Vendor Fax

613 931 2777

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms Currency Net 30 CAD

FOB

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN HAWKESBURY, ON K6A 1K7 **CANADA**



Line NI	or Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable Uni	Req Qty/ it of Measure	Ship Method	Unit Price	Extended Price
ì	85055	Crosstube D212-664-101	6/12/2012 No	1.00	Yours ppd	\$146.7500	Mill
2	85054	Crosstube D212-664-101	6/12/2012 No	1.00	Yours ppd	\$146.7500	\$1-4.
3	83083	D212-664-101 Crosstube	6/12/2012 No	1.00	Yours ppd	\$146.7500	\$146.7
4	83082	D212-664-101 Crosstube	6/12/2012 No	1.00	Yours ppd	\$146.7500	\$146.~

PO Total:

850-

No substitution or deviation without consent. Certificate of Conformity or Material Certification required - YES NO

Change Nbr:

Change Date: 6/12/2012